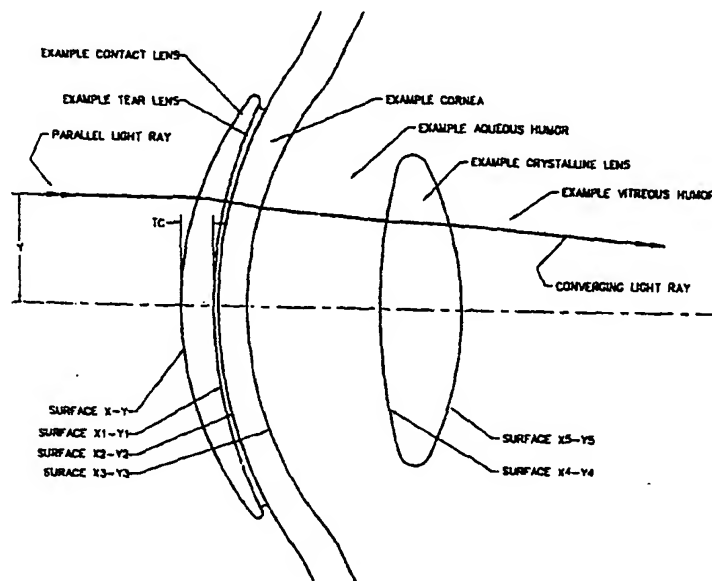




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(54) Title: CONTACT LENSES AND METHODS OF MANUFACTURE



(57) Abstract

The invention relates to a method of manufacturing a contact lens having an aspheric front surface computed by a method that allows total power control at each point of the lens by controlling power across the optic area of the lens, or each incremental part thereof. The lens can be monofocal, multifocal, toric, prismatic or a combination of these and be manufactured by any method such as lathe-cutting and cast-moulding. The lens can be manufactured to impart a chosen substantially uniform focal power over the optic area of the lens, or each incremental part thereof, either when in air or when part of the lens-eye system when in situ on the eye. The invention allows for the optimisation of the method of manufacturing the front surface of the lens, by fitting the most suitable mathematical equations dependent on the accuracy of the manufacturing equipment.